

» MSS

Missile Signal Simulator For Warning Systems Testing



CI Systems' Missile Signal Simulator (MSS) is a compact hand-held and self-contained missile radiation simulator. The MSS enables the operator to test the readiness and performance of Missile Warning Systems' (MWS) in the flight line as a routine test as well as in the laboratory. The MSS is designed to withstand field environmental conditions. The MSS contains miniature IR/SWIR/UV/Dual-IR radiation sources, which are modulated by a built-in microprocessor to a reliable simulation of the radiation emitted by any missile.

» FEATURES

- ▶ Portable, compact and lightweight
- ▶ Fast and easy to operate
- ▶ Operates under field conditions
- ▶ Removable MicroSD card
- ▶ RS232/USB computer interface for maintenance
- ▶ UV, SWIR, MWIR, LWIR bands
- ▶ User-friendly software
- ▶ Independent profiles for each band

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» SPECIFICATIONS

	MSS-UV	MSS- Mid-IR	MSS- LW-IR	MSS-IR DUAL	MSS-SWIR
Wavelength Range	265 ±5nm other wavelengths optional	Mid-IR-Band	LW-IR-Band	Mid-IR-Dual-Band	1550 ±20nm other wavelengths optional
Illumination Field	Vertical : 10° ±1°	Vertical : 15° ±1°	Vertical : 15° ±1°	Vertical : 10° ±1°	Vertical : 11° ±1°
	Horizontal : 10° ±1°	Horizontal : 15° ±1°	Horizontal : 15° ±1°	Horizontal : 10° ±1°	Horizontal : 11° ±1°
Maximum Radiant Intensity	4.0E-02 W/str	1 mW/str	6 mW/str	Blue Band 7.0E-02 W/str Red Band 5.5E-02 W/str	3 mW/str
Dynamic Range	10 bit				
Emission Linearity	> 95%				
Temporal Resolution	5-50 msec				
Number of Profile Data Files	Internal memory (Ele. Card) -10 Profiles, Each profile length 1-10 sec (Depending on Temporal Resolution) External memory (SD Card) -10 Profiles, Each profile length 50 sec				
Aiming Device	Rifle Scope (Focused at 10 to 30 m) / Iron Sight				
Boresight	>1 mrad between Rifle Scope / Iron Sight to OUTPUT radiation				
Battery	Rechargeable Li-Ion 3.7 VDC / 5.2 Ah Good for 200 full Length, max radiance profile				
External ND Filter (Optional For different signature ranges)	Yes				
External Micro SD Card	8 GB				
Remote Operation	Yes				
Display Interface	OLED Display 0.96" Diagonal Size				
PC Interface	RS-232 / USB Adaptor				
Tripod Interface	Standard ¼ " - 20 UNC thread				
Weight [kg]	<2Kg (including batteries and Rifle Scope)				
Laser Pointer	Optional				
Dimensions [cm]	29 x 7 x 20 (H x W x L)				
Operating Temperature	-10° C to +55° C				
Storage Temperature	-40° C to +71° C				
Environmental Condition	Rain, humidity, shock, sand, dust, transportation vibration				
Software	Windows compatible software for operation and uploading profiles into unit.				

Specifications are subject to change without prior notice Cat. No. 607-1900G July 2018